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WETLAND DEPLETION FROM URBANIZATION COMPARATIVE ANALYSIS OF CHANCHAGA- MINNA. LANDZUN- BIDA AND KONTAGORA WETLANDS, NIGER STATE, NIGERIA

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ABSTRACT: *Wetland depletion from urbanization was investigated. The aim is to make a comparison interim of wetland depletion from urbanization activities in parts of Niger state, specifically chanchaga-Minna, Landzun-Bida and kontogora wetland . Four multi-date landsat satellite imageries; TM of 1998, 1998, ETM+ 2008 and OLI 2018 were utilized to generate data. The normalized difference built up index (NDBI) was used to extract built up features with indices ranging from -1 to 1. The result indicate that land use and cover distribution over land zone-BNida exhibited more concentration of built up areas on the wetland as compared to chanchaga- Minna and kontogora. In Landzun- Bida, the built up areas occupied 12.35km² while at chanchaga-Minna, it occupied 8.2km² and in kontogora it is 7.8km². wetland depletion shows that 3.1 km² for Bida, 4.3km² for Minna and 4.2km² for Kontogora are what is left aa at 2018 indicating urbanization effect. The conclusion is that spatio-temporal changes in wetland land use and cover showed that the wetland changed into different land use and land cover types due to population increase, farm land cultivation and increase in built up areas.*

Keywords: *Wetland, urbanization, depletion, land use, ecosystem, environment*